Intelligent Service Access with Iskratel SI3000 product range

SDN-Enabled Access and Aggregation

Key Benefits:

• Mature, field-proven SDN application

• Base for transition to SDN network

• Protects your CAPEX

• Lowers OPEX with zero-touch service provisioning

• Enables a new sustainable business model

With the Intelligent Service Access (ISA), Iskratel is the first solution provider to implement and deploy a true Software-Defined Network (SDN) application.

The components of this field-proven solution represent the ideal choice for operators considering the transition to an SDN-enabled network.

ISA: AN SDN APPLICATION

Iskratel ISA (Intelligent Service Access) architecture is a concept of network intelligence, distributed on access and aggregation nodes, with a centralized management system. ISA architecture reduces service-edge complexity, while also enabling extreme scalability.

A ROSE BY ANY OTHER NAME

Iskratel ISA inherently supports SDN with high granularity of service flows (with L1-L4 classification), flexibility of actions per flow, and transparent provisioning with an external controller.

The ISA architecture decouples control plane and data-flow provisioning. The service-flow aware access and aggregation nodes act as service-provisioning and policy-enforcement points.

A distributed model of service delivery moves intelligence and flow awareness closer to the end users, away from the more expensive centralised model. ISA greatly enhances service quality, network security and traffic management
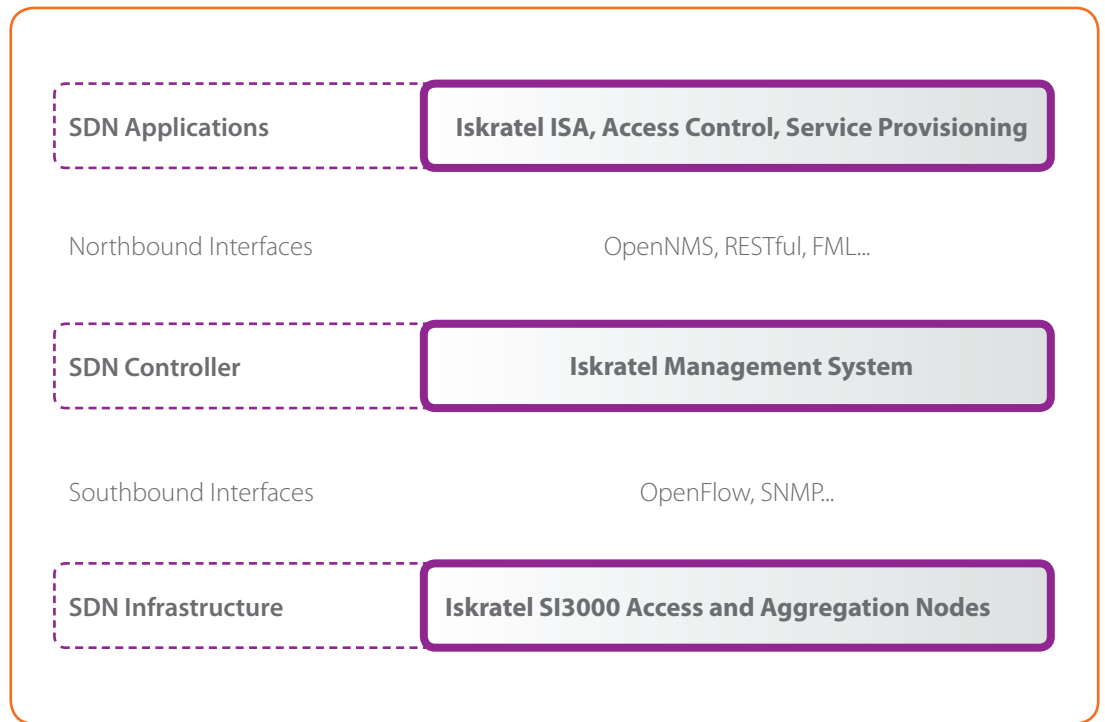
EASY SERVICE PROVISIONING

The ISA architecture assures high scalability with centralised AAA provisioning, which enables automated end-to-end service provisioning in real time. Eliminating the need for manual intervention decreases the operational costs and allows dynamic policy enforcement with proper service accounting. The end users are given the possibility for self-provision and personalisation of their services.

ISKRATEL

Highlights:

- Partnership-ready ecosystem for use of best building blocks

- OpenISA uses standard principles for openness beyond OpenFlow

- No vendor lock-in

- Enables open-access networks for end users' freedom of choice

- Available today

SDN Applications	**Iskratel ISA, Access Control, Service Provisioning**
Northbound Interfaces	OpenNMS, RESTful, FML...
SDN Controller	**Iskratel Management System**
Southbound Interfaces	OpenFlow, SNMP...
SDN Infrastructure	**Iskratel SI3000 Access and Aggregation Nodes**

INGREDIENTS OF ISA AND SDN

The main components of Iskratel ISA are SI3000 access and aggregation nodes. With them, the operators have everything in place for a SDN-enabled, service-aware network.

ISA architecture provides standard interfaces between network elements and the centralised management system that serves as an SDN controller. Open north- and southbound interfaces enable easy integration with OSS/BSS systems.

SUSTAINABLE FLEXIBILITY

The addition of the OpenFlow interface eases interworking with third-party SDN controllers, and the hybrid SDN solution offers maximum flexibility of use and integration.

The sustainability of network architecture is ensured by SDN-based configurability of network elements, giving the operators all the flexibility and adaptability needed for innovative services and applications.

SAFE PATH TO CARRIER SDN

Iskratel ISA is a mature and field-proven application. Implementing it is the first and the most logical step towards building a fully SDN-enabled access and aggregation network, powered by Iskratel network elements.

By embracing ISA, operators find themselves on a safe and secure path to fully SDN-enabled service-delivery networks.

MEETING THE OBJECTIVES

With SI3000 access and aggregation, the operators can safely start building their software-defined networks today.

As more standardised and community-supported interfaces are introduced into Iskratel's network elements, the operators are well prepared to support and meet the requirements of all future services and applications.